



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>A61K 31/435, C07D 211/14, 211/56, 221/02, 221/06</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 99/45925</b> <b>(43) International Publication Date:</b> 16 September 1999 (16.09.99)
<b>(21) International Application Number:</b> PCT/US99/05131 <b>(22) International Filing Date:</b> 9 March 1999 (09.03.99)  <b>(30) Priority Data:</b> 60/077,402 10 March 1998 (10.03.98) US 60/107,902 10 November 1998 (10.11.98) US  <b>(71)(72) Applicant and Inventor:</b> CARROLL, Frank, Ivy [US/US]; 5124 North Willowhaven Drive, Durham, NC 27712 (US).  <b>(74) Agents:</b> BEAUMONT, William, E. et al.; Oblon, Spivak, McClelland, Maier & Neustadt, P.C., Crystal Square Five, 4th floor, 1755 Jefferson Davis Highway, Arlington, VA 22202 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> NOVEL OPIATE COMPOUNDS, METHODS OF MAKING AND METHODS OF USE  <b>(57) Abstract</b>  The present invention relates to a class of nitrogen-containing heterocyclic compounds which bind to opioid receptors. The inventive compounds can be used to treat a variety of disease states which involve the opioid receptors.		